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being used for the purpose. The mean value from the measurements of three observers using from 8 to 10 lines is -94^{km} .
WALTER S. ADAMS.

SOME RECENT SPECTRAL PARALLAX DETERMINATIONS.

In continuation of the determination of the absolute magnitude and the parallax of stars from certain characteristics of their spectra, a number of stars with well-determined measured parallaxes have been observed. Some of the more interesting cases of this kind are summarized in the following table. The double stars in particular form a useful test of the value of the method since the absolute magnitude differences in these cases should correspond to those in apparent magnitude. In the table M denotes absolute magnitude, and the references to measured parallaxes are to those by Slocum and Mitchell, Lee and Joy, Schlesinger and Russell. Kapteyn's compilation is indicated by the letter K.

	<i>m</i>	<i>Spectrum</i>	<i>M</i>	π		<i>Authority</i>
				<i>Spec.</i>	<i>Meas.</i>	
η Cassiop.	{ 3.6	Go	4.2	+0".13	+0.19	K.
	{ 7.6	Ko	8.8	0 .17		
T Ceti	3.6	G5	6.3	0 .35	0.32	K.
6 Persei	5.4	G3	-0.7	0 .01	0.00	L. and J.
O ₂ Eridani	4.5	K1	6.5	0 .25	0.17	K.
A. Oe. 4961	8.5	K5	8.7	0 .11	0.10	S. and M.
W. B. 5 ^b 592	8.9	Ma	10.1	0 .17	0.18	K.
A. Oe. 9342	{ 9.2	K9	9.6	0 .12		
	{ 9.2	K7	9.1	0 .10	0.08	Green
43 Comae	4.3	G1	4.2	0 .10	0.12	K.
Ber. B. 5072	9.5	K7	8.6	0 .07	0.05	R., L. and J.
Pi 14 ^b 212	{ 5.8	K5	7.1	0 .18		
	{ 8.7	Ma	10.2	0 .20	0.17	K.
δ Herculis	3.0	G1	2.3	0 .07	0.14	K.
W. B. I. 16 ^b 906	8.8	Md	9.9	0 .17	0.13	L. and J.
Anon. 17 ^b 34 ^m	9.1	K7	10.2	0 .17	0.14	L. and J.
+18° 36'						
A. Oe. 17415	9.3	Mb	10.4	0 .17	0.22	L. and J.
Lam. 18180	9.4	K7	9.1	0 .09	0.07	R., Sch.
α Draconis	4.8	G9	6.7	0 .24	0.20	K.
β Aquilæ	3.9	G7	3.0	0 .07	0.07	M.
γ Delphini A	4.5	Ko	1.3	0 .02	0.07	M.

WALTER S. ADAMS.

THE PARALLAXES OF B. D. $+35^{\circ}4001$ AND B. D. $+35^{\circ}4013$.

In the *Publications of the Astronomical Laboratory at Groningen*, No. 1, Kapteyn and Donner discuss the parallaxes

of 248 stars in the region around B. D. $+35^{\circ}4013$. The choice of the region of the sky covered by their plates had been determined by the fact that it contained three Wolf-Rayet stars. These three stars were also put on the Mount Wilson program and the parallaxes of two of them have been finished. The results are:

B.D. $+35^{\circ}4001$	$\pi_{\text{rel.}} = +0''.011 \pm 0''.005$	16 exposures
B.D. $+35^{\circ}4013$	$\pi_{\text{rel.}} = +0''.002 \pm 0''.003$	14 exposures

The measures and reductions were made in practically the same way as that described in *Contributions from the Mount Wilson Solar Observatory*, No. 111. To derive absolute parallaxes the values found should be corrected by about $+0''.002$. The absolute magnitudes are then $+4.1 \pm 0.8$ and $+0.9 \pm 1.8$.

The relative parallaxes of these two stars are given by Kapteyn as $+0''.004$ and $+0''.032$, respectively, corresponding to absolute parallaxes of $+0''.008$ and $+0''.036$, while the probable errors are $0''.025$ and $0''.020$. However, from a comparison of the mean parallaxes as given in *Groningen* 1, page 72, with those derived by Kapteyn in *Groningen* 8, page 28, it seems likely that these parallaxes need a magnitude correction. From a curve constructed from the values given in *Groningen* 1, page 72, it would seem that the necessary corrections for the two stars are $-0''.014$ and $-0''.025$, respectively, leaving as absolute parallaxes $-0''.006$ and $+0''.011$.

It is to be regretted that it has been impossible to derive also the parallax of the third Wolf-Rayet star, B. D. $+36^{\circ}3956$, but this will have to wait until next year.

I should like to correct here an error made in the printing of the proper motion of 61 *Cygni*, as given in this JOURNAL, February, 1916:

61₁ *Cygni* μ_{α} should read $= +4''.169$ instead of $+4''.107$.

A. VAN MAANEN.

MAGNITUDES AND COLOR OF BARNARD'S PROPER-MOTION STAR, $17^{\text{h}} 53^{\text{m}} 44^{\text{s}} + 4^{\circ} 27'.8$ (1916)

The photographic and photovisual magnitudes of Barnard's large proper-motion star have been determined by direct com-